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CONTROL ID: 1197537**TITLE:** Near-Real Time Data for Space Weather Analyses: Present Status and Future**PRESENTATION TYPE:** Assigned by Committee (Oral or Poster) [Invited]**CURRENT SECTION/FOCUS GROUP:** Earth and Space Science Informatics (IN)**CURRENT SESSION:** IN11. Current Capabilities and Future Needs of Near Real-Time Data**AUTHORS (FIRST NAME, LAST NAME):** Michael Hesse¹, Antti Pulkkinen¹, Yihua Zheng¹, Marlo M. H. Maddox¹, Maria M Kuznetsova¹**INSTITUTIONS (ALL):** 1. Code 674, Space Weather Laborato, Greenbelt, MD, United States.**Title of Team:**

ABSTRACT BODY: Assessments of the present state and future evolution of the space environment heavily relies on timely access to appropriate environmental measurements. These, near real-time (nrt), measurements provide a direct assessment of local or remote space environment conditions, they contribute to a more global description of Space Weather parameters through assimilative models, and they provide essential input into forecasting models. Unlike meteorology, however, the provision of these data is not a mainstream activity in the sense that critical space environment data are often derived from research rather than operational sensors. In addition, space research is a relatively immature field, where substantial gaps in our knowledge impede our ability to optimally use available data streams. In this presentation, we provide examples of presently employed nrt data streams and their utility. We further discuss challenges and opportunities associated with the present approach to space weather forecasting. Finally, an outlook toward the future will be presented.

INDEX TERMS: [2722] MAGNETOSPHERIC PHYSICS / Forecasting, [7924] SPACE WEATHER / Forecasting, [7959] SPACE WEATHER / Models, [7999] SPACE WEATHER / General or miscellaneous.

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